

Abstract

The present invention relates to a shared network system, sharing method and router device for routing data packets in an IP transport network. Separate dedicated link layers having predetermined dedicated link capacities are allocated for transmitting and/or receiving data packets, wherein the dedicated link layers share an available capacity of a real link layer or physical layer. Thereby, multiple virtual networks assigned to customers can be operated in parallel and managed completely independently. Furthermore, tunneling mechanisms with their associated transmission overhead are no longer required.